FALNES TIDE

VS 485 PSV

Vessel Characteristics

Length, Overall:	278.9 ft	85 m
Beam:	65.6 ft	20 m
Depth:	28.2 ft	8.6 m
Maximum Draft:	23.5 ft	7.2 m
Light Draft:	10.8 ft	3.3 m
Minimum Height:	95.1 ft	29 m
Freeboard:	4.7 ft	1.4 m
Displacement:	8,420 lt	8,550 mt
Deadweight:	5,360 lt	5,450 mt
Clear Deck Space:	197 x 55 ft	60 x 17 m
Clear Deck Area:	9,900 ft^2	920 m^2
Deck Strength AFT:	2,050 lb/ft^2	10 t/m^2
Class Notations:	DNV: +1A1, Battery(Power), Clean(Design), COMF(C-3, V-3), DK(+), DYNPOS(AUTR), E0, HL(2.8), Ice(C), LFL(*), NAUT(OSV(A)), OILREC, SF, PMS(M), CLEAN, DDV(PMS)	

Capacities

Deck Cargo:	3,030 lt	3,070 t
Fuel Oil:	196,000 gal	740 m^3
Potable Water:	87,000 gal	330 m^3
Fresh Water:	128,000 gal	490 m^3
Drill/Ballast Water:	622,000 gal	2,350 m^3
Bulk Tanks (6 tanks):	11,700 ft^3	330 m^3
Liquid Mud (2.8 SG*): *Max Structural Specific Gravity	4,380 bbl	700 m^3
Methanol:	920 bbl	150 m^3
Base Oil:	1,280 bbl	200 m^3
Brine:	2,630 bbl	420 m^3
Fire Fighting Foam:	1,660 gal	6.3 m^3

TIDEWATER

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Pg.2 Further Specifications
Pg.3 General Arrangement
Pg.4 Capacity Table
Pg.5 DP Capability Plot

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FALNES TIDE

Further specifications

Machinery

Diesel Electric Hybrid Vessel			560 kWh Battery
Propulsive/Total HP:			5,900 / 8,930
Z-Drives:			Yes
Propellers (2):			AZP100 RRM AZIPULL, 2200KW
Primary Generators (4):	1,660 kw	690 v	60 hz
Driven by:			WARTSILA 9L20
Emergency Generators (1):	180 kw	690 v	60 hz
Driven by:			VOLVO D9 MG RC
Bow Thruster (3):			2x FU-74-LTC-2000 TT, 1x AR63LNC DD
Driven by:			2x 1000KW, 1x 880KW ELECTRIC MOTORS
Total Thrust:		35.9 st	32.6 mt

Deck Equipment

Anchors (2):	3540 KG SPEK
Anchor Chain:	260 m of 46 mm chain per side
Windlass:	2x NMD
Crane (1):	3 t @ 13 m
Aux. Crane (1):	3 t @ 11 m
Capstans (2):	8 t NMD
Tugger (2):	15 t TU-15

Accommodations

No. of Berths:	22
Cabins:	10x1-man & 6x2-man
Certified to Carry:	22
Galley seating:	12
Hospital:	Yes

Registration

Flag: ISLE OF MAN		**Home Port:** DOUGLAS
Hull Number: 345		**IMO N^{O}:** 9591882
Year Built: 2011		**Call Sign:** MSQJ4
Builder:		Kleven Verft AS
Tonnage (ITC):	4258 GT	1799 NT

Performance*

Fuel Consumption Vs Speed		
Maximum:	24 m³/day (260 gph) @ 15.5 knots	
Cruising:	13 m³/day (140 gph) @ 13 knots	
Economical:	11 m³/day (120 gph) @ 11 knots	
Standby:	3 m³/day (33 gph) @ 0 knots	
Range @ 13 Knots:	17,700 nm	
Transfer Rates		
Fuel Oil:	660 gpm @ 300 ft	150 m³/h @ 92 m
Fresh Water:	660 gpm @ 300 ft	150 m³/h @ 92 m
Drill/Ballast Water:	660 gpm @ 300 ft	150 m³/h @ 92 m
Bulk:	32.4 cfm @ 220 ft	55 m³/h @ 60 m
Liquid Mud:	440 gpm @ 800 ft	100 m³/h @ 240 m
Base Oil:	440 gpm @ 300 ft	100 m³/h @ 92 m
Brine:	440 gpm @ 800 ft	100 m³/h @ 240 m
Methanol:	330 gpm @ 300 ft	75 m³/h @ 92 m

Nav/Comms Equipment

Radar(s):	2
Depth Sounder:	1
Gyro Compass:	3
Wind Speed Indicators:	2
Doppler Log:	1
Radio:	4 x VHF; 1 x SSB
Sat Com:	2X INMARSAT-C

Special Equipment

Dynamic Positioning:	DP-2
Ref. Systems:	3 x MRU; 2 x DGPS 1 x Microwave-based; 1 x Laser-based
Mud Circulation System/ Mud Mixers:	Yes/Yes
Tank Cleaning:	Yes
Rescue Zone:	Yes
Rescue Boat:	Weedo 600 FRC
Reefer Sockets:	9x 230V 16A
Misc:	HPR Trunk; ORO Capacity - 1796.0 m3; Special Prod. Capacity - 146.3 m3; MSD - 23 Persons; Oil Detection Radar

*Approximate values assuming Ideal Conditions

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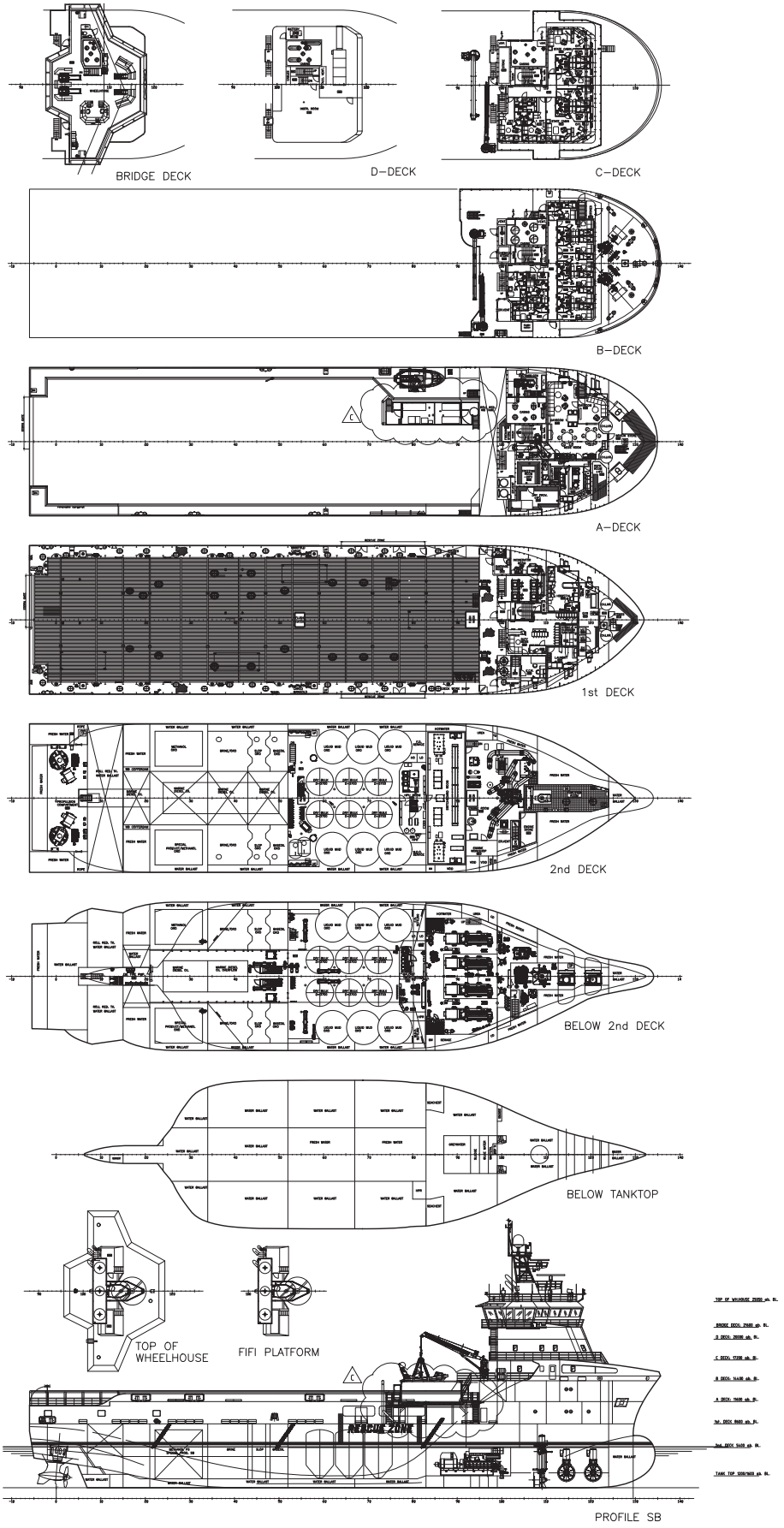
FALNES TIDE

General Arrangement (Current configuration may vary.)



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FALNES TIDE

Capacity Table

Tank	Contents	Volume m^3	Base Oil	Fuel Oil	Dry Bulk	DW/WB	Potable Water	Fresh Water	Brine	Liquid Mud	Methanol	Lube Oil	Foam	Oil Disp.
01 FOREPEAK C	DW/WB	110.1				110.1								
201 WB/DW DB TK PS	DW/WB	63.2				63.2								
202 WB/DW DB TK SB	DW/WB	64.3				64.3								
203 WB/DW DB TK SB	DW/WB	70.6				70.6								
204 WB/DW DB TK SB	DW/WB	72.7				72.7								
231 ROLL RED TK C	DW/WB	163.0				163.0								
303 WB/DW DB TK PS	DW/WB	75.8				75.8								
304 WB/DW DB TK SB	DW/WB	69.8				69.8								
305 WB/DW DB TK PS	DW/WB	74.0				74.0								
306 WB/DW DB TK SB	DW/WB	74.0				74.0								
31 WB TK PS	DW/WB	74.5				74.5								
32 WB TK SB	DW/WB	74.5				74.5								
33 WB TK PS	DW/WB	68.0				68.0								
34 WB TK SB	DW/WB	68.0				68.0								
402 WB/DW DB TK C	DW/WB	90.4				90.4								
403 WB/DW DB TK PS	DW/WB	78.1				78.1								
404 WB/DW DB TK SB	DW/WB	78.1				78.1								
41 WB TK PS	DW/WB	76.8				76.8								
42 WB TK PS	DW/WB	76.8				76.8								
501 SKEG TK C	DW/WB	140.9				140.9								
64 ROLL RED TK C	DW/WB	445.0				445.0								
73 AFT PEAK DB TK C	DW/WB	51.9				51.9								
71 AFT WG TK PS	FW	36.8				36.8		36.8						
72 AFT WG TK SB	FW	35.0				35.0		35.0						
74 FW STERN TK C AFT	FW	120.8				120.8		120.8						
11 FW DEEP TK PS	Ship's FW	164.7					164.7							
12 FW DEEP TK SB	Ship's FW	164.6					164.6							
21 FW WING TK PS	FW	52.2						52.2						
22 FW WING TK SB	FW	51.7						51.7						
301 FW DB TK C	FW	84.3						84.3						
302 FW DB TK C	FW	76.6						76.6						
61 FW DEEP TK PS	FW	110.5						110.5						
62 FW DEEP TK SB	FW	110.5						110.5						
216P FO EMER GEN	FO	3.4		3.4										
217P FO LOOSE TK INCIN.	FO	0.7		0.7										
321P FO SETTL 1	FO	23.1		23.1										
322S FO SETTL 2	FO	23.1		23.1										
323P FO SERVICE 1	FO	19.8		19.8										
324S FO SERVICE 2	FO	19.8		19.8										
410 FO OVERFLOW C	FO	65.7		65.7										
411 FO DEEP TK C	FO	168.5		168.5										
412 FO DEEP TK C	FO	168.5		168.5										
510 FO DEEP TK C	FO	291.1		291.1										
63 FO DEEP TK C	FO	112.3		112.3										
421 BO/ORO PS	BO/ORO	101.9	101.9											
422 BO/ORO SB	BO/ORO	101.9	101.9											
425 BRI/ORO PS	BRI/ORO	209.0							209.0					
426 BRI/ORO SB	BRI/ORO	209.0							209.0					
325 LM/ORO 1P	LM/ORO	118.6								118.6				
326 LM/ORO 1S	LM/ORO	118.6								118.6				
327 LM/ORO 2P	LM/ORO	114.6								114.6				
328 LM/ORO 2S	LM/ORO	114.6								114.6				
329 LM/ORO 3P	LM/ORO	114.6								114.6				
330 LM/ORO 3S	LM/ORO	114.6								114.6				
521 METH/ORO PS	METH/ORO	145.5									145.5			
DRY BULK 2P	DRY BULK	55.0			55.0									
DRY BULK 2S	DRY BULK	55.0			55.0									
DRY BULK 3P	DRY BULK	55.0			55.0									
DRY BULK 3S	DRY BULK	55.0			55.0									
DRY BULK 4P	DRY BULK	55.0			55.0									
DRY BULK 4S	DRY BULK	55.0			55.0									
335 LO TK 1P	LO	4.5										4.5		
337 LO TK 3P	LO	5.5										5.5		
338 LO TK 4P	LO	6.3										6.3		
FOAM TANK	FOAM	6.3											6.3	
522 SPEC/ORO SB	SPEC P/ORO	146.3												
Total Volume [m^3]			203.8	896.0	330.0	2,353.1	329.3	678.4	418.0	695.6	145.5	16.3	6.3	0.0
Spec Sheet Total Volume [m^3]			203.8	740.4	330.0	2,353.1	329.3	485.8	418.0	695.6	145.5	16.3	6.3	0.0

*Capacities shown are for lead vessel. Actual capacities may vary slightly.

*Capacities shown in RED are excluded from the total volume.

*Capacities shown in BLUE are included in another Tank's Capacity.

*Capacities shown in GREEN are counted for multiple Tank Capacities.

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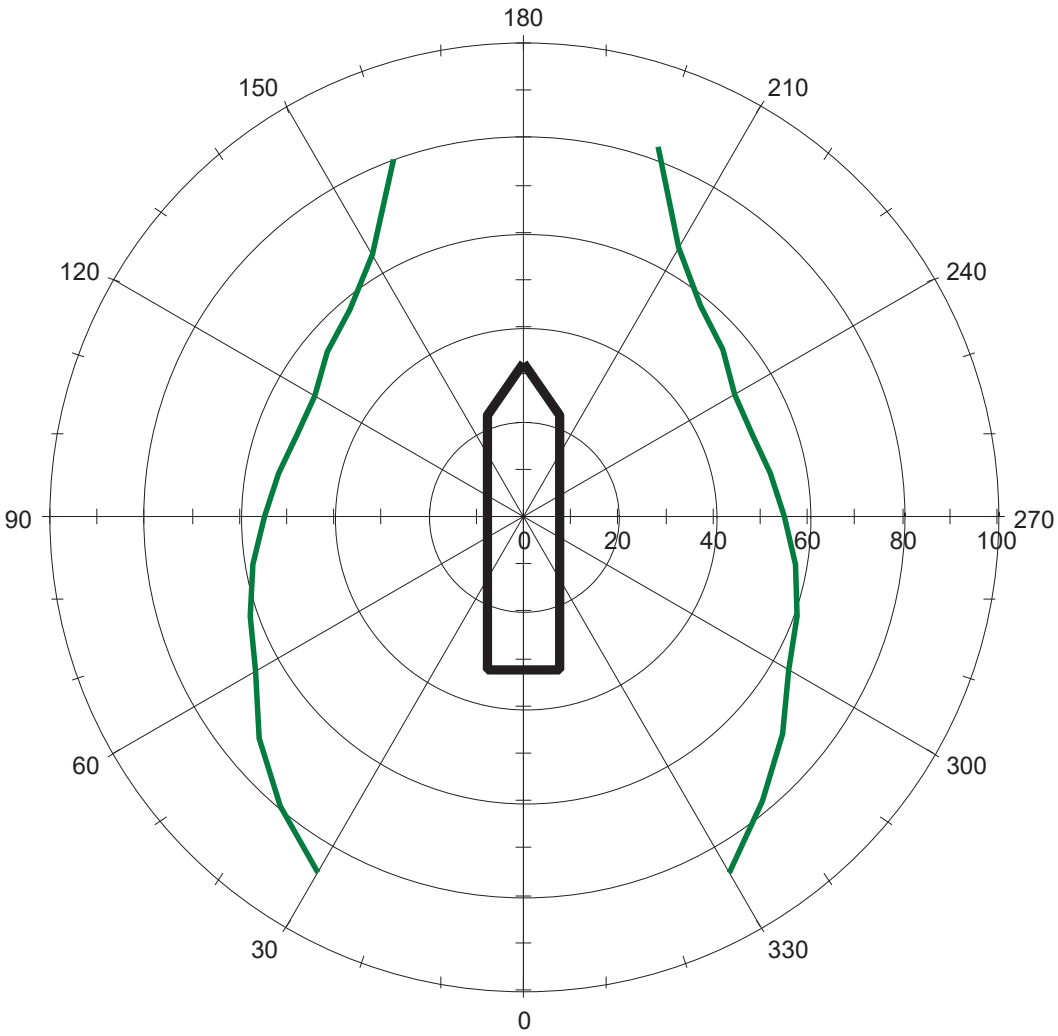
FALNES TIDE

DP Capability Plot

Ship: 4230 VS485 MkII PSV
Run : All thrusters in operation



External:
Variable wind velocity rotating 360 deg
1.50 knots wind generated current rotating 360 deg
Variable wave height rotating 360 deg

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